

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 Claim 1 (currently amended): A photographing device
2 provided with a dust removing mechanism comprising:
3 ~~[[a photographing optical system which forms~~
4 ~~an optical image of an object,]]~~
5 a photoelectric conversion element which converts
6 ~~[[the]]~~ an optical image into an electric signal;
7 an optical element arranged ~~[[between the~~
8 ~~photographing optical system and the photoelectric~~
9 ~~conversion element in such a manner as to seal]]~~ in a
10 light path of the photoelectric conversion element;
11 a piezoelectric element provided at a peripheral
12 portion of the optical element;
13 a drive circuit which supplies a ~~[[periodic]]~~ drive
14 signal to the piezoelectric element to ~~[[vibrate]]~~ drive
15 the piezoelectric element ~~[[, thereby vibrating the~~
16 ~~optical element]]~~; and
17 a control circuit which ~~[[changes a frequency of the~~
18 ~~periodic drive signal]]~~ causes the piezoelectric element
19 to vibrate via the drive circuit, to thereby cause [[the
20 optical element to be vibrated at a plurality of
21 frequencies that are close to at least two resonance
22 frequencies different in order and successively applied]]
23 flexural standing wave vibration in the optical element,
24 the control circuit being configured to cause at least
25 two flexural standing wave vibrations in the optical
26 element at different nodes of vibration by changing
27 control modes with time.

Claims 2-14 (canceled)

1 Claim 15 (new): The photographing device according to
2 claim 1, wherein the control circuit causes the
3 piezoelectric element to vibrate at a frequency
4 corresponding to a resonance frequency of the optical
5 element, to thereby cause flexural standing wave
6 vibration in the optical element.

1 Claim 16 (new): The photographing device according to
2 claim 15, wherein the control circuit changes a frequency
3 at which the piezoelectric element vibrates, to thereby
4 cause at least two flexural standing wave vibrations in
5 the optical element.

1 Claim 17 (new): The photographing device according to
2 claim 1, wherein the flexural standing wave vibration has
3 an amplitude of vibration in a direction perpendicular to
4 an optical element surface of the optical element.

1 Claim 18 (new): A control method for a photographing
2 device provided with a dust removing mechanism which
3 removes dusts from an optical element arranged in a
4 photographing light path, the method comprising:
5 generating a first flexural standing wave vibration
6 in the optical element; and
7 generating a second flexural standing wave vibration
8 different from the first flexural standing wave vibration
9 to remove dusts from a position corresponding to a node
10 of the first flexural standing wave vibration.

1 Claim 19 (new): The control method according to claim 18,
2 wherein the second flexural standing wave vibration is

3 generated in the position corresponding to the node of
4 the first flexural standing wave vibration.